

## ABSTRACT

### Title:

Cooled mandrel for winding a band into a coil

### Applicant:

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### Inventors:

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The invention concerns a cooled mandrel for winding a band-type product into a coil, including a set of adjacent segments (2) mounted to slide radially on a central shaft (1) and fitted each of a cooling circuit (24, 24') having two orifices, respectively an inlet orifice (75) and an outlet orifice (75'), connected each, by a connection fitting (7, 7') having a variable length, to a supply (5) or exhaust (5') duct, respectively of a heat exchanging fluid.

According to the invention, the linking fittings (7, 7') corresponding to each segment (2) are connected to a distribution part (6) threaded on a lateral face (13') of the shaft (1), wherein emerge transversally both ducts, respectively the supply duct (5) and the exhaust duct (5'), which are arranged inside the central shaft (1).

Figure: 1